

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P316268

Luminaire Tested: **GAN-SA4A-827-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316268  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4A-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14556 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

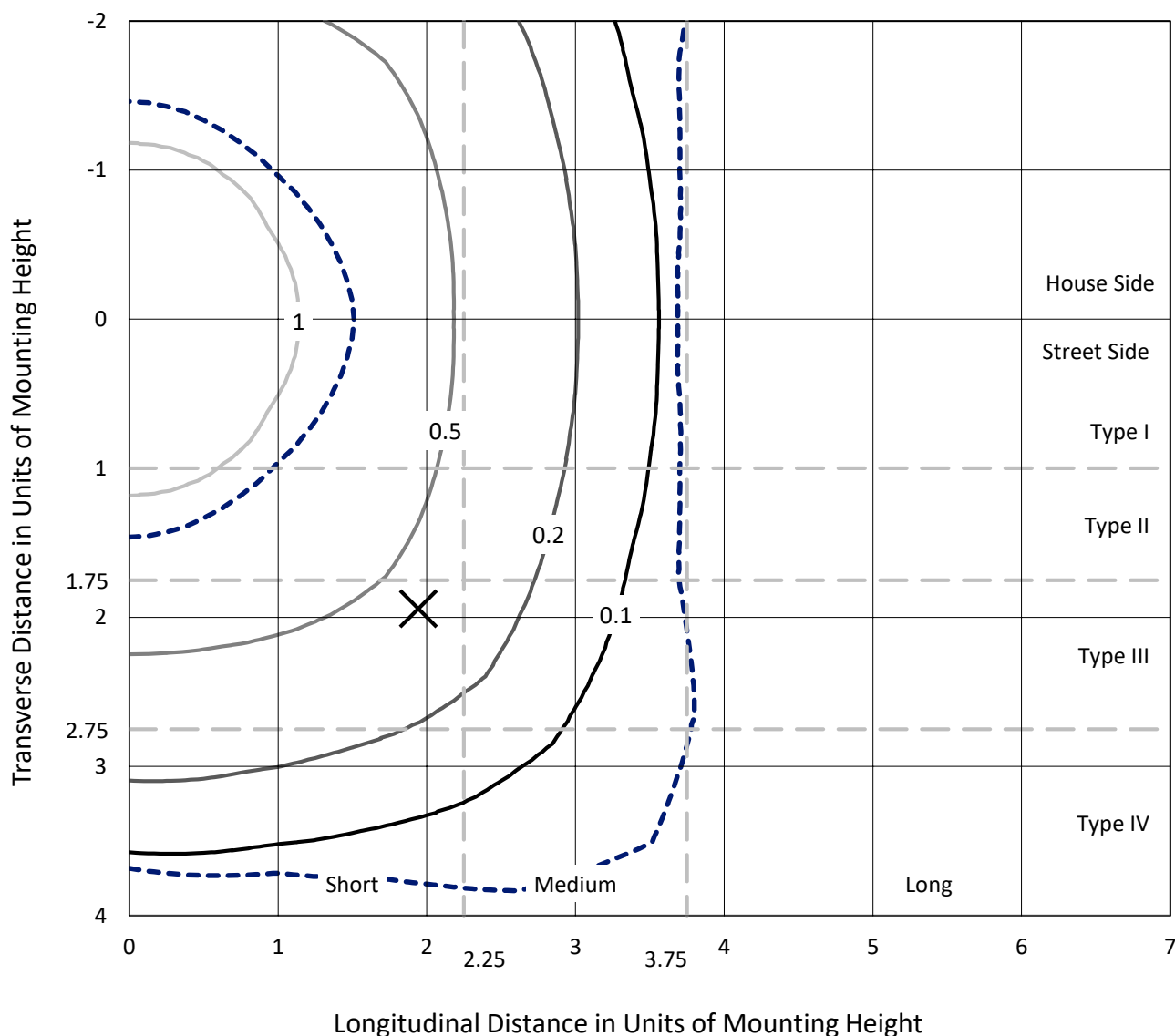
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

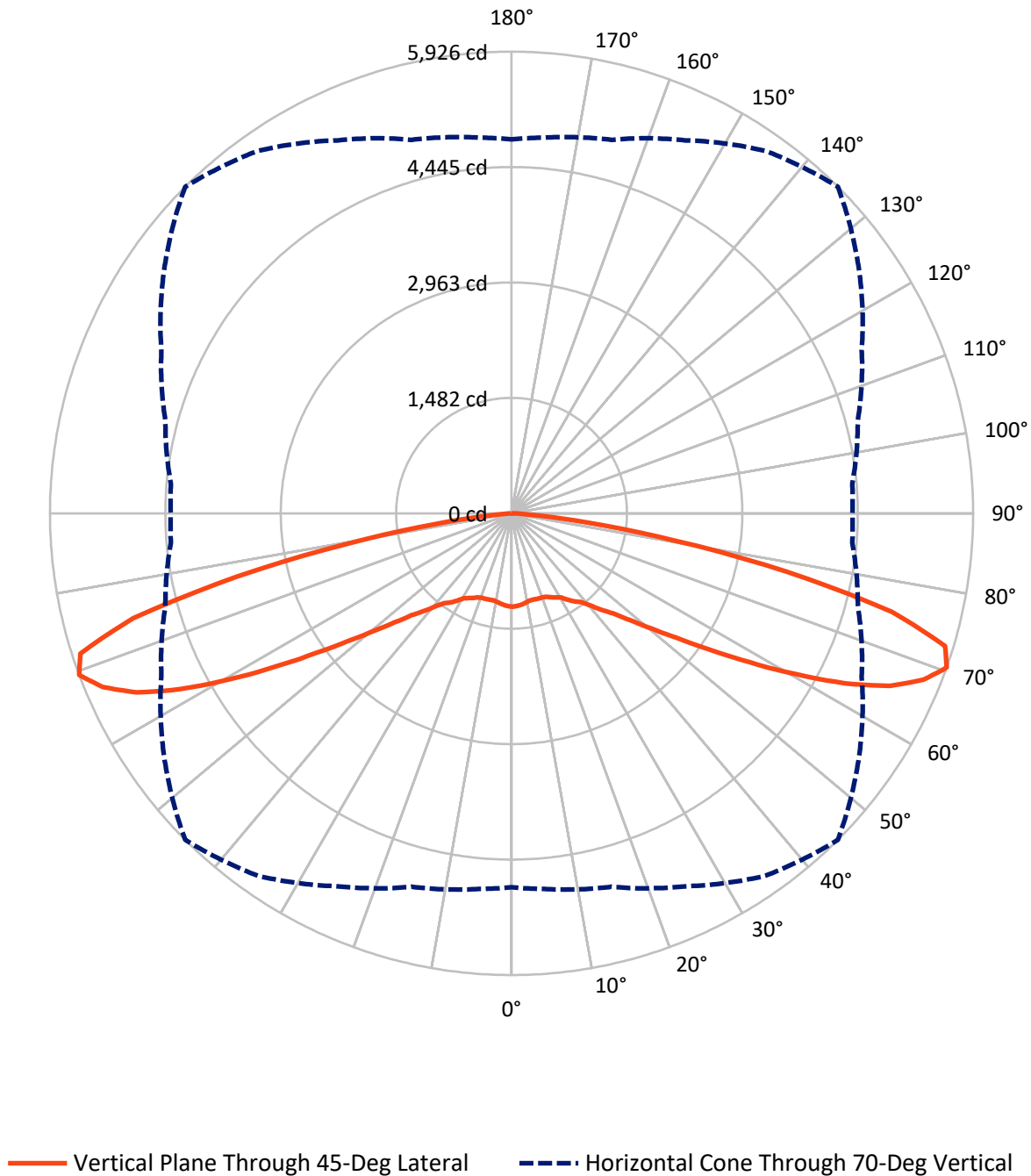
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7278.0   | 0.0    | 7278.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7278.0   | 0.0    | 7278.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14556.0  | 0.0    | 14556.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 111.8   | 0.8       |
| 10°-20°   | 326.6   | 2.2       |
| 20°-30°   | 556.8   | 3.8       |
| 30°-40°   | 870.1   | 6.0       |
| 40°-50°   | 1474.6  | 10.1      |
| 50°-60°   | 2689.0  | 18.5      |
| 60°-70°   | 4629.3  | 31.8      |
| 70°-80°   | 3628.6  | 24.9      |
| 80°-90°   | 269.1   | 1.8       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 14556.0 | 100.0     |
| 0°-180°   | 14556.0 | 100.0     |

**Coefficient of Utilization**



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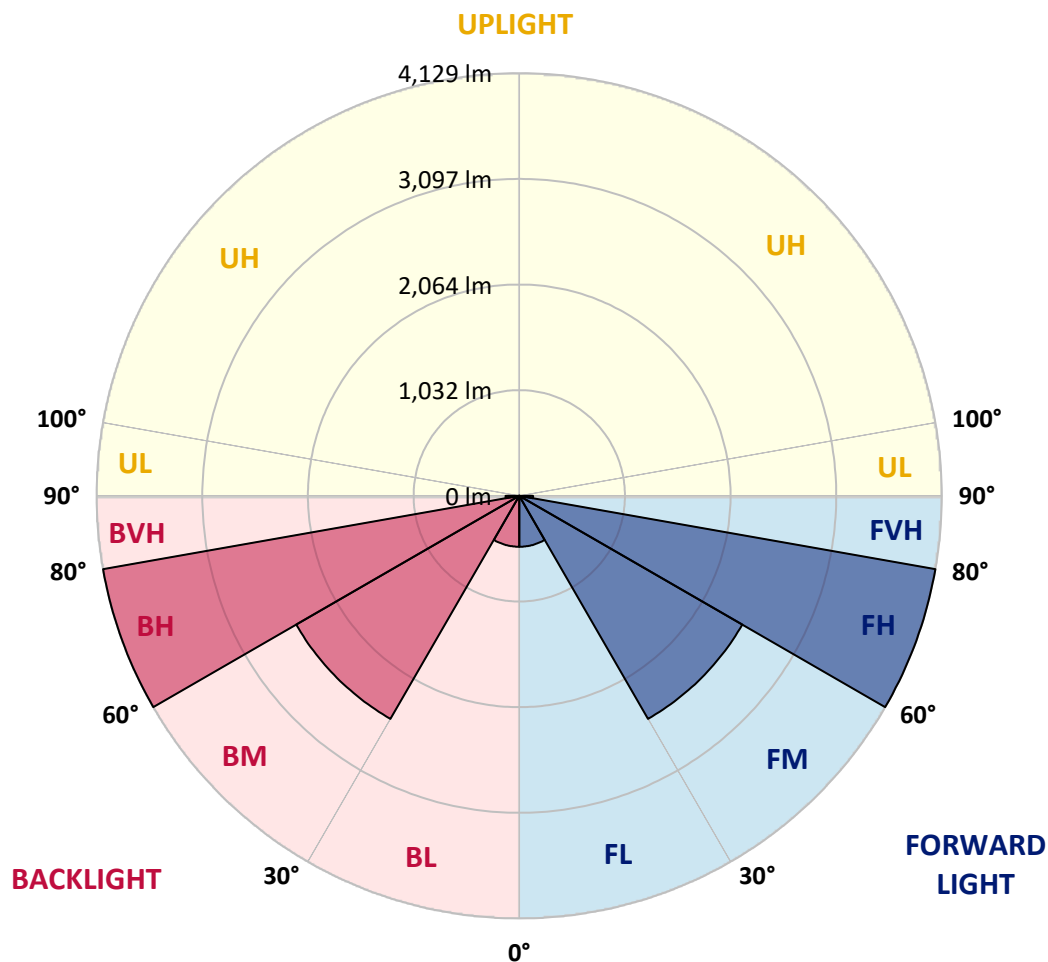
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 497.6  | 3.4       |                         |      |         |
| FM   | (30°-60°)   | 2516.8 | 17.3      |                         |      |         |
| FH   | (60°-80°)   | 4129.0 | 28.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 134.5  | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 497.6  | 3.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2516.8 | 17.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 4129.0 | 28.4      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 134.5  | 0.9       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 |
| 2.5°  | 1192.7 | 1194.1 | 1192.7 | 1193.6 | 1191.2 | 1192.2 | 1192.2 | 1192.2 | 1191.7 | 1192.2 | 1191.2 |
| 5°    | 1182.1 | 1183.0 | 1181.1 | 1182.1 | 1180.6 | 1182.1 | 1182.6 | 1182.1 | 1181.1 | 1181.6 | 1179.7 |
| 7.5°  | 1166.2 | 1167.1 | 1165.7 | 1167.1 | 1165.2 | 1167.6 | 1167.1 | 1165.7 | 1164.3 | 1164.3 | 1162.3 |
| 10°   | 1157.5 | 1158.0 | 1154.1 | 1152.7 | 1148.4 | 1149.3 | 1150.8 | 1152.2 | 1153.7 | 1156.6 | 1156.1 |
| 12.5° | 1158.0 | 1158.0 | 1152.2 | 1146.0 | 1139.7 | 1141.1 | 1143.6 | 1148.8 | 1154.6 | 1159.9 | 1160.4 |
| 15°   | 1162.8 | 1162.3 | 1153.7 | 1143.6 | 1139.2 | 1143.6 | 1145.0 | 1148.4 | 1157.5 | 1166.7 | 1167.1 |
| 17.5° | 1166.2 | 1166.2 | 1152.7 | 1141.1 | 1140.7 | 1147.4 | 1146.9 | 1148.4 | 1158.5 | 1172.0 | 1172.4 |
| 20°   | 1172.4 | 1172.4 | 1155.1 | 1142.6 | 1142.6 | 1149.8 | 1150.3 | 1152.7 | 1162.8 | 1177.7 | 1180.1 |
| 22.5° | 1186.4 | 1186.9 | 1168.6 | 1158.5 | 1159.4 | 1163.8 | 1165.2 | 1169.1 | 1178.2 | 1194.6 | 1197.5 |
| 25°   | 1206.1 | 1207.1 | 1188.3 | 1182.6 | 1185.9 | 1194.1 | 1193.1 | 1196.0 | 1206.1 | 1222.0 | 1224.9 |
| 27.5° | 1233.6 | 1231.2 | 1213.9 | 1211.4 | 1214.8 | 1220.6 | 1220.1 | 1220.6 | 1228.8 | 1243.2 | 1246.6 |
| 30°   | 1269.2 | 1268.3 | 1255.7 | 1257.2 | 1255.7 | 1253.8 | 1254.3 | 1258.1 | 1262.5 | 1274.0 | 1277.4 |
| 32.5° | 1303.9 | 1304.9 | 1297.1 | 1304.4 | 1315.0 | 1322.2 | 1311.1 | 1300.5 | 1295.7 | 1302.0 | 1304.9 |
| 35°   | 1366.5 | 1368.9 | 1356.9 | 1352.0 | 1366.5 | 1387.7 | 1356.4 | 1339.0 | 1348.7 | 1356.9 | 1359.3 |
| 37.5° | 1472.9 | 1474.3 | 1454.1 | 1434.9 | 1424.3 | 1444.5 | 1413.2 | 1414.6 | 1448.3 | 1463.7 | 1463.3 |
| 40°   | 1594.2 | 1594.7 | 1581.2 | 1564.4 | 1546.1 | 1550.9 | 1538.4 | 1542.2 | 1564.4 | 1578.3 | 1582.2 |
| 42.5° | 1738.7 | 1737.2 | 1716.0 | 1692.0 | 1686.7 | 1691.5 | 1670.3 | 1667.4 | 1692.9 | 1718.0 | 1718.5 |
| 45°   | 1926.0 | 1922.6 | 1895.2 | 1868.7 | 1843.2 | 1832.6 | 1827.3 | 1841.2 | 1876.4 | 1899.5 | 1900.0 |
| 47.5° | 2127.7 | 2118.6 | 2104.1 | 2082.9 | 2060.8 | 2050.2 | 2041.5 | 2048.3 | 2073.8 | 2082.9 | 2083.9 |
| 50°   | 2335.3 | 2337.2 | 2340.1 | 2331.9 | 2323.7 | 2320.3 | 2297.7 | 2284.7 | 2292.4 | 2275.5 | 2273.1 |
| 52.5° | 2581.3 | 2585.1 | 2613.1 | 2636.7 | 2650.6 | 2657.9 | 2615.0 | 2570.2 | 2545.2 | 2512.4 | 2502.8 |
| 55°   | 2871.6 | 2877.9 | 2918.8 | 2984.3 | 3051.7 | 3087.3 | 3009.8 | 2926.0 | 2848.5 | 2787.4 | 2767.6 |
| 57.5° | 3195.2 | 3206.3 | 3262.6 | 3388.3 | 3526.5 | 3610.7 | 3479.8 | 3327.6 | 3177.9 | 3089.8 | 3074.3 |
| 60°   | 3574.6 | 3585.2 | 3663.2 | 3843.3 | 4067.2 | 4193.8 | 3995.4 | 3746.5 | 3560.2 | 3475.9 | 3447.5 |
| 62.5° | 4026.3 | 4027.2 | 4123.0 | 4333.5 | 4629.1 | 4805.3 | 4536.7 | 4203.9 | 4011.8 | 3910.2 | 3882.8 |
| 65°   | 4512.1 | 4514.5 | 4613.7 | 4841.0 | 5146.7 | 5338.3 | 5035.0 | 4688.3 | 4453.4 | 4303.6 | 4282.4 |
| 67.5° | 4855.4 | 4865.5 | 4970.0 | 5243.5 | 5529.5 | 5702.4 | 5388.4 | 4996.5 | 4724.9 | 4546.3 | 4528.5 |
| 70°   | 4800.5 | 4840.0 | 4962.8 | 5282.0 | 5679.7 | 5926.2 | 5445.7 | 4959.9 | 4601.7 | 4390.8 | 4375.8 |
| 72.5° | 4186.6 | 4262.2 | 4425.9 | 4844.8 | 5480.9 | 5820.3 | 5133.2 | 4442.3 | 4036.9 | 3857.3 | 3830.3 |
| 75°   | 2850.9 | 2973.7 | 3220.7 | 3825.0 | 4682.5 | 5039.3 | 4321.4 | 3541.9 | 3160.5 | 2912.1 | 2893.8 |
| 77.5° | 1271.1 | 1299.1 | 1612.0 | 2307.8 | 3231.3 | 3618.9 | 3139.8 | 2317.0 | 1739.2 | 1387.2 | 1313.0 |
| 80°   | 354.4  | 358.7  | 478.6  | 859.5  | 1617.3 | 2126.3 | 1736.3 | 902.8  | 507.5  | 357.8  | 337.0  |
| 82.5° | 112.7  | 122.3  | 149.3  | 222.9  | 543.6  | 970.2  | 558.1  | 240.7  | 171.4  | 136.7  | 123.3  |
| 85°   | 54.9   | 54.4   | 75.6   | 90.5   | 138.7  | 214.7  | 147.8  | 111.7  | 97.7   | 65.0   | 58.7   |
| 87.5° | 23.1   | 23.6   | 35.1   | 31.8   | 40.4   | 34.7   | 47.7   | 50.1   | 52.5   | 28.9   | 25.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)